

ABSTRACT

A motorcycle wheel assembly comprising a brake hub rotatably mounted to a wheel axel. A brake disc is affixed to the brake hub rotating with the brake hub. A tire hub is rotatably carried by the brake hub carrying a tire for contacting a road surface to rotate the tire hub. A transfer gear is disposed between the tire hub and the brake hub for interconnecting the brake hub and tire hub. A center gear is carried by the brake hub for engaging the transfer gear, and a ring gear is carried by the tire hub for engaging the transfer gear so that rotation of the tire hub causes the transfer gear to counter-rotate the brake hub. Accordingly, counter-rotation of the brake disc carried by the brake hub creates a counter-rotational gyroscopic force that cancels out the gyroscopic force created by rotation of the motorcycle tire and tire hub.

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